

DIAGNOSES OF NEW SPECIES OF *SICYOCARYA* (CUCURBITACEAE)
HAWAIIAN PLANT STUDIES 160

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Sicyocarya has contained two Hawaiian species described by Asa Gray who placed them in the genus *Sicyos*. The present paper adds 26 new species, endemic to the Hawaiian Islands.

Sicyocarya atrimaculata sp. nov. Caules nigri-maculati sunt, petiolis 2.2-2.8 cm longis, laminis 4.7-8.3 \times 5-6 cm 2-3-partitis infra hirsutulis, floribus masculis cum lobis perianthii 1.5-2 mm longis ovatis subacutis, antheris 5, nucibus 8.5-12 4-4.5 2.3 mm lanceoloideis nigri-maculatis. Typus: Maui I., Haleakala Range pipeline, G. C. Munro 801.

S. beccifer sp. nov. Caules nigri-maculati sunt, petiolis 4-6 cm longis puberulis, laminis 7.5-15 8-14 cm vadose 5-lobatis infra puberulis, floribus feminineis 6, nucibus 12 > 8-9 mm corpore subgloboso rostro 2-3 mm longo. Typus: Hawaii I., Laupahoehoe, F. R. Warshauer 1,535.

S. cruralis sp. nov. Calues glabri sunt, petiolis 14-30 mm longis puberulis, laminis 3.5-4.5 \times 3-3.7 cm vadose 3-5-lobatis puberulis, floribus masculis cum lobis perianthii 0.7-0.9 \times 0.7-1.2 mm deltoideis, antheris 3, floribus feminineis cum 4 lobis corollae 1.7 mm longis ellipticis subacutis, nucibus 7.5-8 \times 2.4-2.7 \times 1.5-1.7 mm lanceoloideis in basi cum 3-4 pedibus, Typus: Hawaii I., J. Remy 539 (P).

S. hawaiiensis sp. nov. Novellae hirsutulae resinosaes sunt, caulis nigri-maculatis, petiolis 5-7.5 cm longis maculatis glabratris, laminis 10-11 \times 9-11 cm vadose 3-lobatis infra hirsutulis, floribus feminineis in gemma 1 mm diametro globoso, nucibus 7 \times 6.5 mm subglobosis 5-angulosis hirsutulis rostro 1 mm longo. Typus: Hawaii I., J. Remy 539 (P).

S. kaalaensis sp. nov. Caules nigri-maculati glabri sunt, petiolis 1.5-4.7 cm longis, laminis 6-12 cm diametro vadose 3-5-lobatis infra puberulis, floribus masculis cum lobis perianthii 2 mm longis ovatis, subacuminatis, antheris 5, floribus feminineis cum 4 lobis perianthii inaequalibus 2-2.7 mm longis ellipticis acutis, nucibus 15-17 \times 8-10 mm ovoideis acutis puberulis. Typus: Oahu I., Mt. Kaala, H. St. John 23,365.

S. kaenaensis sp. nov. Novellae glabrae sunt, petiolis 14-25 mm longis, laminis 3.5-5 \times 4-5.5 cm 1/3-lobatis primo puberulis, floribus masculis cum lobis

perianthii 2 mm longis ovatis, anterhis 5, floribus
femineis cum lobis perianthii 2 mm longis ovatis,
nucibus 7.5-8 X 3 mm lanceoloideis nigri-maculatis
ad basim lobatis. Typus: Oahu I., Kaena Point,
G. D. Carr 898.

S. kalalauensis sp. nov. Nodae glandulose puberulae sunt, petiolis 3.5-5.5 cm longis capitate glandulose puberulis, laminis 12-17 X 10.5-15.5 cm ovatis profunde 5-lobatis, floribus masculis cum lobis perianthii 3.5-4 mm longis ovatis, antheris 3, floribus femineis 4-5, nucibus 19-22 X 9-10 mm lancei-ovoideis 5-amgulosis capitate glandulose puberulis rostro 5 mm longo. Typus: Kauai I., Kalalau Valey, C. N. Forbes & C. Dole 59.K.

S. kauaiensis sp. nov. Caules nigri-maculatae sunt, nodis puberulis, petiolis 2.2-2.8 cm longis puberulis, laminis 7-8.3 X 6.3-8.5 cm 5-lobatis infra nervis puberulis, floribus femineis 2-3, nucibus 17-18 X 3-6 mm lanceoloideis trigonis puberulis. Typus: Kauai I., Kokee, O. Degener 18,041.

S. kilaeaensis sp. nov. Caules glabri sunt, petiolis 3.5-9 cm longis puberulis, laminis 9-23 X 9.5-21 cm vadose 3-lobatis infra praecox hirsutulis, floribus masculis cum lobis perianthii 2.3-2.5 mm longis ovatis, antheris 5, nucibus 18-20 X 8-9 X 5-6 mm ellipsoideis glabris rostro 2-3 mm longo. Typus: Hawaii I., 23 Mile, J. F. Rock 16,006.

S. kipahuluensis sp. nov. Caules glabri sunt, petiolis 7.5-15 cm longis glabris, laminis 16-20.5 X 15-19 cm cordatis elobatis infra nervis puberulis, floribus masculis cum lobis perianthii 2.3 mm longis ovatis subacute, antheris 3, nucibus 25 X 12 X 4-5 mm ellipsoideis 5-angulosisglabris. Typus: Maui I., Kipahulu, C. N. Forbes 1,709.M.

S. kokocrateris sp. nov. Caules glabri sunt, petiolis 1-5.7 cm longis, laminis 7-13.5 X 5.5-12.5 cm cordatis vadose 5-lobatis, floribus masculis cum lobis perianthii 1.3 mm longis ovatis, antheris 3, floribus femineis cum 4 lobis corollae 0.5 mm longis ovatis, nucibus 11-13 X 3.5-4.5 mm lanceoloideis in dimidio basali cum lobis rotundatis pluribus. Typus: Oahu I., Koko Crater, H. St. John 26,936.

S. konaensis sp. nov. Novellae puberulae sunt, petiolis 2.5-5.5 cm longis puberulis, laminis 8.5-16 X 8-14 cm ½-lobatis in 5 lobis, gemmis masculis 2.5 mm diametro globosis puberulis lobis 1.1 mm longis ovatis, nucibus 32-36 X 12-14 X 11-12 mm oblanceoloideis glabris. Typus: Hawaii I., McCandless forests, J. F. Rock 26.018.

S. lanceoloidea sp. nov. Caules viridi-maculati sunt, nodis puberulis, petiolis 3.5-8 cm longis puberulis,

laminis 9-17 X 9-16.5 cm cordatis $\frac{1}{2}$ -lobatis in 5 lobis, floribus masculis cum lobis perianthii 3.5-3.7 mm longis ovatis subacutis, antheris 5, floribus femineis cum lobis corollae 4 mm longis lanceolatis, nucibus 23-25 X 7-8 X 5-6 mm lanceoloideis puberulis, rostro 8 mm longo. Typus: Kauai I., Kokee, C. N. Forbes 776.K.

S. Lebishoppii sp. nov. Novellae hirsutae et glandulose puberulae sunt, petiolis 7-18 mm longis hirsutis et glandulose puberulis, laminis 7-12 X 8-11.5 cm 1/4-lobatis in 5 lobis infra puberulis, floribus masculis cum lobis perianthii 2.2-2.5 mm longis ovatis, antheris 5, floribus femineis cum 5 lobis corollae 1.3-1.6 mm longis ovatis capitate glandulose puberulis, nucibus 9-10 X 6-7 X 3-4 mm lanceoloideis puberulis et cum lobis acutis pluribus. Typus: Kauai I., Waimea Canyon, L. E. Bishop 1,316.

S. mauiensis sp. nov.

Sicyos cucumerinus A. Gray, var. B triangulata Cogn., Monogr. Phanerog. 3: 898, 1881.

Novellae subglabrae sunt, caulinis nigri-maculatis, petiolis 12-38 mm longis, laminis 4.5-11 X 2-8 cm deltoideis elobatis infra puberulis, floribus masculis cum 4-6 lobis 1.7-2 mm longis lancei-ovatis, antheris 2, floribus femineis cum lobis corollae 0.8 mm longis ovatis acutis, nucibus 5-7.5 X 4-5 mm ovoideis angulosis. Typus: Maui I., Haleakala, Kaupo Gap, H. St. John & A. L. Mitchell 21,198.

S. molokaiensis sp. nov. Novellae pilosae sunt, caulinis nigri-maculatis, petiolis 22-34 mm longis subglabratiss, laminis 5.5-11 X 4-9.5 cm hastatis, floribus masculis cum lobis perianthii 1.3 mm longis ovatis, antheris 5, floribus femineis 2-4 sessilibus, nucibus 3 X 1.6 mm ovoideis. Typus: Molokai I., Kahuaawi Gulch, O. Degener 18,398 (NY).

S. Obatae sp. nov. Novellae glabrae sunt, caulinis nigri-maculatis, petiolis 2-3.5 cm longis, laminis 6-10.5 X 6-10.3 cm subcordatis vadose 5-lobatis infra puberulis, floribus masculis cum lobis 3.5-4 mm longis ovatis, antheris 3, floribus femineis cum lobis corollae 3-3.5 mm longis ellipticis, nucibus 20-22 X 8 X 6-7 mm lanceoloideis 5-angulosis glabris rostro 3-4 mm longo. Typus: Oahu I., Makaho-Waianae Kai, W. C. Gagne, J. Obata & D. Palmer 682.

S. paucifragalis sp. nov. Novellae puberulae sunt, petiolis 2.2-3.2 cm longis puberulis, laminis 5-9 X 6-9.3 cm suborbicularis 5-partitis infra hirsutulis, floribus femineis cum 4 lobis 0.7-0.8 mm longis ellipticis, nucibus 7 X 3.5 mm lanceoloideis tertio basali 5-anguloso rostro 5.5 mm longo, Typus: Molokai I., Waiakuilani Gulch, L. E. Bishop & T. Pratt 1,766.

S. protrusa sp. nov. Caules glabri sunt, petiolis 1.8-3.8 cm longis, laminis 2.5-3.7 X 2.3-4 cm suborbicularibus 1/3 lobatis in 5 lobis infra hirsutulis, floribus masculis cum lobis perianthii 2-2.5 mm longis ovatis, antheris 5, floribus femineis cum lobis corollae 0.8-1 mm longis ovatis, nucibus 7-8.5 X 3-4 X 2-2.5 mm lanceoloideis corpore cum maculis nigris spiciferis rostro 2-4 mm longo. Typus: Lanai I., Maunalei, H. St. John 18,818.

S. puberula sp. nov. Novellae hirsutulae sunt, caulis nigri-maculatis, petiolis 4-10.5 cm longis puberulis, laminis 11-18 cm diametro suborbicularibus 1/6-1/4-lobatis in 5 lobis infra puberulis, floribus masculis cum lobis perianthii 2.3-2.5 mm longis ovatis, antheris 5, floribus femineis cum lobis corollae 2.5 mm longis ellipticis capitate glandulose puberulis, nucibus 15-20 X 8-12 X 7-12 mm corpore ellipsoie puberulo rostro 3-6 mm longo. Typus: Hawaii I., Mauna Kea C. H. Lamoureux 4,382.

S. Rockii sp. nov. Caules pilosulae sunt, petiolis 2.5-3 cm longis puberulis, laminis 9-11.5 X 9-11.2 cm suborbicularibus 5-sublobatis infra puberulis, floribus masculis cum lobis perianthii 2.4 mm longis ellipticis, antheris 4, floribus femineis cum lobis corollae 1.5-2 mm longis ellipticis, nucibus 16-18 X 6-7 mm ellipsoideis puberulis stipitatis rostro 2-3 mm longo. Typus: Hawaii I., Puu Waa Waa D. Herbst et al. 5,433.

S. rostrata sp. nov. Caules pilosis sunt, petiolis 6-9 cm longis capitate glandulose hirsutulis, laminis 6.5-7.5 X 7-8.5 cm cordate vadoso 5-lobatis infra puberulis, floribus masculis cum lobis perianthii 1.5 mm longis ovatis, antheris 5, nucibus 9 X 3.5 X 3 mm ovoideis rostro 2.5 mm longo. Typus: Kauai I., Barking Sands, D. Herbst & S. Ishikawa 5,691a.

S. saltuaria sp. nov. Caules glabri sunt, petiolis 18-42 mm longis puberulis, laminis 6-12 X 7-9.5 cm cordatis elobatis infra hirsutulis, nucibus 27-30 X 12-14 X 9 mm oblanceoloideis 5-angulosis. Typus: Hawaii I., Honaunau, L. W. Bryan.

S. umbellata sp. nov. Caules glabri sunt, petiolis 2-4.5 cm longis glabris, laminis 8-12 X 5-9 cm ovatis acutis, floribus masculis cum lobis perianthii 1.5-2 mm longis deltoideis, antheris 4, nucibus 23-24 X 9-10 X 3-5 mm oblancei-fusiformibus angulosis. Typus: Maui I., Kipahulu, P. K Higashino 9,412.